



Linn Operating, Inc.

A wholly-owned subsidiary of Linn Energy, LLC
226 E. 16th Street
Traverse City, Michigan 49684
Main: 231.922.7302
Fax: 231.922.0892

October 31, 2016

Stephen M. Jann, Chief
Underground Injection Control Branch
US EPA Region 5
77 W. Jackson Blvd., Mail Code WU-16J
Chicago, IL 60604-3590

RECEIVED

NOV 03 2016

UIC BRANCH
EPA, REGION 5

RE: Mechanical Integrity Test – Dollar Lake 1-31 SWD
EPA Permit # MI-119-2D-0040

Dear Mr. Jann:

This letter is to inform you that Linn Operating, Inc. conducted an unwitnessed mechanical integrity test (MIT) on the above salt water disposal well. The test was conducted on October 19, 2016 by field technician Eric Hunter.

The results of the test along with circular chart are enclosed. If you should have any questions, please contact me or Diane Lundin at (231) 922-7302.

Sincerely,

Tina Pompilius
Administrative Assistant

cc: Lisa Perenchio
Jeff McDonald

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
STANDARD ANNULAR PRESSURE TEST

Operator LINN ENERGY State Permit No. 45725
Address 226 EAST SIXTEENTH STREET USEPA Permit No. MI-119-2D-0040
TRAVERSE CITY, MI 49684 Date of Test 10-19-16
Well Name DOLLAR LAKE 1-31 Well Type 2D
LOCATION INFORMATION SW Quarter of the SW Quarter of the SE Quarter
of Section 31; Range 1E; Township 29N; County MONTGOMERY;
Company Representative ERIC HUNTER; Field Inspector _____;
Type of Pressure Gauge WIKA 4" inch face; 600 psi full scale; 5 psi increments;
New Gauge? Yes ☒ No ☐ If no, date of calibration _____ Calibration certification submitted? Yes ☐ No ☒

<p>TEST RESULTS Readings must be taken at least every 10 minutes for a minimum of 30 minutes for Class II, III and V wells and 60 minutes for Class I wells. For Class II wells, annulus pressure should be at least 300 psig. For Class I wells, annulus pressure should be the greater of 300 psig or 100 psi above maximum permitted injection pressure. Original chart recordings must be submitted with this form.</p>	<p>5-year or annual test on time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 2-year test for TA'd wells on time? Yes <input type="checkbox"/> No <input type="checkbox"/> After rework? Yes <input type="checkbox"/> No <input type="checkbox"/> Newly permitted well? Yes <input type="checkbox"/> No <input type="checkbox"/></p>
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Time	Pressure (in psig)		Casing size
	Annulus	Tubing	
<u>0</u>	<u>319</u>	<u>-15</u>	<u>5 1/2</u>
<u>10</u>	<u>317</u>	<u>-15</u>	<u>2 7/8</u>
<u>20</u>	<u>317</u>	<u>-15</u>	Packer type <u>ARROW TENSION</u>
<u>30</u>	<u>317</u>	<u>-15</u>	Packer set @ <u>2514</u>
<u>40</u>	<u>317</u>	<u>-15</u>	Top of Permitted Injection Zone <u>2550</u>
			Is packer 100 ft or less above top of
			Injection Zone ? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
			If not, please submit a justification.
			Fluid return (gal.) <u>1 1/2</u>
			Comments:

Test Pressures: Max. Allowable Pressure Change: Initial test pressure x 0.03 9.6 psi
Test Period Pressure change 2 psi

Test Passed ☒ Test Failed ☐

If failed test, well must be shut in, no injection can occur, and USEPA must be contacted within 24 hours. Corrective action needs to occur, the well retested, and written authorization received before injection can recommence.

I certify under penalty of law that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (See 40 CFR 144.32(d))

ERIC HUNTER  10-19-16
Printed Name of Company Representative Signature of Company Representative Date

PRINTED IN U.S.A.

NOON

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11

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9

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7

6 AM

5

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3

2

1

MIDNIGHT



CHART NO. MC MP-1000

METER _____ TAKEN OFF _____

CHART PUT ON 10-13-2016 M

LOCATION

Dollar Lake 1-31

REMARKS

Em. M. H. S.

42°